

Supplementary Table 1: ELF5-interacting proteins identified by RIME

Uniprot ID	Uniprot Protein Name	Unique Peptides					Mascot Score				
		1 (%)	2	3	4	5	1	2	3	4	5
5 of 5 replicates (3)											
ELF5_HUMAN	ETS-related transcription factor Elf-5	4 (15.5)	4	2	4	5	490	587	146	213	365
PRKDC_HUMAN	DNA-dependent protein kinase catalytic subunit	15 (4.8)	6	1	1	1	239	128	42	47	51
SC16A_HUMAN	Protein transport protein Sec16A	14 (12.5)	20	7	1	2	159	1244	278	85	202
4 of 5 replicates (5)											
RL13A_HUMAN	60S ribosomal protein L13a	4 (22.7)	1	2		1	80	51	118		73
RL18A_HUMAN	60S ribosomal protein L18a		2	2	1	1		85	123	57	54
RL30_HUMAN	60S ribosomal protein L30	2 (17.4)	2	2		1	29	121	78		84
TRI25_HUMAN	E3 ubiquitin/ISG15 ligase TRIM25	2 (3.5)	1		1	1	148	43		51	55
U2AF1_HUMAN	Splicing factor U2AF 35 kDa subunit	2 (10.8)	2	1		1	56	111	68		62
3 of 5 replicates (13)											
ATPA_HUMAN	ATP synthase subunit alpha, mitochondrial	1 (4.0)	1			1	35	69			90
H12_HUMAN	Histone H1.2	7 (17.8)	2	1			479	126	98		
H2B1C_HUMAN	Histone H2B type 1-C/E/F/G/I			2	3	2			75	96	89
PAIRB_HUMAN	Plasminogen activator inhibitor 1 RNA-binding protein	2 (7.8)	1			1	62	81			84
PPM1G_HUMAN	Protein phosphatase 1G	8 (25.5)	3	1			186	100	48		
PUR6_HUMAN	Multifunctional protein ADE2	2 (10.4)	1			1	87	62			109
RA1L2_HUMAN	Heterogeneous nuclear ribonucleoprotein A1-like 2		2	1		2		160	48		134
RCC1_HUMAN	Regulator of chromosome condensation	4 (15.7)	1			1	27	129			45
RS27A_HUMAN	Ubiquitin-40S ribosomal protein S27a	3 (27.6)	4	1			84	276	154		
TCPE_HUMAN	T-complex protein 1 subunit epsilon	1 (4.3)	1			1	61	87			53
TRI33_HUMAN	E3 ubiquitin-protein ligase TRIM33	3 (2.9)	3	1			138	102	64		
U2AF2_HUMAN	Splicing factor U2AF 65 kDa subunit	1 (2.1)	1			1	28	43			98
XRCC5_HUMAN	X-ray repair cross-complementing protein 5	13 (30.1)	2	1			166	50	45		
2 of 5 replicates (53)											
ACL6A_HUMAN	Actin-like protein 6A	1 (4.4)	1				21	38			
ACTG_HUMAN	Actin, cytoplasmic 2		6	9				744	465		
ATPB_HUMAN	ATP synthase subunit beta, mitochondrial		1	2				77	82		
C2TA_HUMAN	MHC class II transactivator		1	1				38	42		
CBX1_HUMAN	Chromobox protein homolog 1	1 (17.8)	1				181	130			
CCAR2_HUMAN	Cell cycle and apoptosis regulator protein 2	11 (21.0)	1				358	55			
CHD4_HUMAN	Chromodomain-helicase-DNA-binding protein 4	1 (0.9)	1				27	62			
CLIC1_HUMAN	Chloride intracellular channel protein 1	1 (7.5)	2				48	116			
CO3A1_HUMAN	Collagen alpha-1(III) chain	2 (5.2)	3				91	117			
COPB_HUMAN	Coatomer subunit beta	2 (5.1)	1				24	83			
DDX46_HUMAN	Probable ATP-dependent RNA helicase DDX46	1 (1.9)	1				20	45			
DUS23_HUMAN	Dual specificity protein phosphatase 23	5 (37.3)	1				195	46			
DX39A_HUMAN	ATP-dependent RNA helicase DDX39A	2 (17.8)	1				171	55			
H10_HUMAN	Histone H1.0	1 (4.6)	1				23	58			
HNRC1_HUMAN	Heterogeneous nuclear ribonucleoprotein C-like 1				1	1				91	87

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IF2A_HUMAN	Eukaryotic translation initiation factor 2 subunit 1	3 (11.8)		1			87		66		
IMA6_HUMAN	Importin subunit alpha-6	1 (2.6)	1				41	37			
LAP2A_HUMAN	Lamina-associated polypeptide 2, isoform alpha	4 (15.6)	1				178	59			
LASP1_HUMAN	LIM and SH3 domain protein 1	3 (21.8)	2				33	72			
LC7L2_HUMAN	Putative RNA-binding protein Luc7-like 2	2 (5.9)				1	38				63
MCM3_HUMAN	DNA replication licensing factor MCM3	2 (4.3)	2				60	115			
MCM5_HUMAN	DNA replication licensing factor MCM5	2 (3.4)	1				24	96			
MCM6_HUMAN	DNA replication licensing factor MCM6	1 (1.6)	1				28	48			
NOG1_HUMAN	Nucleolar GTP-binding protein 1	1 (2.7)	1				44	41			
NP1L1_HUMAN	Nucleosome assembly protein 1-like 1	2 (7.4)	1				65	89			
NPM3_HUMAN	Nucleoplasmin-3		1	1				133	71		
PRP19_HUMAN	Pre-mRNA-processing factor 19	3 (18.9)	1				114	44			
PSA4_HUMAN	Proteasome subunit alpha type-4	1 (3.8)	1				64	69			
PTBP2_HUMAN	Polypyrimidine tract-binding protein 2	16 (62.3)	4				1059	250			
RAVR1_HUMAN	Ribonucleoprotein PTB-binding 1	17 (43.9)	5				1478	260			
RAVR2_HUMAN	Ribonucleoprotein PTB-binding 2	12 (39.4)	6				505	271			
RL17_HUMAN	60S ribosomal protein L17	3 (15.8)		2			72		61		
RL35A_HUMAN	60S ribosomal protein L35a	2 (22.7)		1			49		43		
RL5_HUMAN	60S ribosomal protein L5	4 (16.2)	1				67	53			
RMXL1_HUMAN	RNA binding motif protein, X-linked-like-1		1	1				50	61		
RS12_HUMAN	40S ribosomal protein S12	2 (13.6)	1				34	98			
RS27L_HUMAN	40S ribosomal protein S27-like	1 (28.6)		1			32		55		
SC23A_HUMAN	Protein transport protein Sec23A		5	1				257	41		
SC23B_HUMAN	Protein transport protein Sec23B	2 (7.0)	8				26	419			
SRSF9_HUMAN	Serine/arginine-rich splicing factor 9	3 (19.0)	1				34	50			
SSRP1_HUMAN	FACT complex subunit SSRP1	3 (5.2)	2				53	122			
SYEP_HUMAN	Bifunctional glutamate/proline--tRNA ligase	2 (2.4)				1	27				45
SYFA_HUMAN	Phenylalanine--tRNA ligase alpha subunit	1 (2.8)	1				45	83			
TCP4_HUMAN	Activated RNA polymerase II transcriptional coactivator p15	2 (22.1)	2				30	98			
TCPG_HUMAN	T-complex protein 1 subunit gamma	6 (19.6)	1				133	62			
TCPH_HUMAN	T-complex protein 1 subunit eta	2 (5.7)				1	57				56
TCPO_HUMAN	T-complex protein 1 subunit theta	2 (6.6)	1				56	115			
THOC4_HUMAN	THO complex subunit 4	4 (31.5)	1				97	56			
TLE1_HUMAN	Transducin-like enhancer protein 1		1	1				62	42		
TOP2B_HUMAN	DNA topoisomerase 2-beta	2 (3.8)	1				202	57			
UBF1_HUMAN	Nucleolar transcription factor 1	2 (6.0)	1				24	53			
VDAC2_HUMAN	Voltage-dependent anion-selective channel protein 2	2 (7.5)		1			66		48		
XPO2_HUMAN	Exportin-2	1 (3.0)	2				54	153			